ABSTRACT

SPEECH PROCESSING SYSTEM

A system is provided for detecting the presence of speech

5   within an input audio signal.   The system includes a

memory for storing a predetermined function which gives,

for a given set of audio signal values, a probability

density for parameters of a predetermined speech model

which is assumed to have generated the set of audio

10   signal values, the probability density defining, for a

given set of model parameter values, the probability that

the predetermined speech model has those parameter values

given that the speech model is assumed to have generated

the set of audio signal values.   The system applies a

15   current set of received signal values to the stored

probability density function and then draws samples from

it using a Gibbs sampler.   The system then analyses the

samples   to   determine   a   set   parameter   values

representative of the audio signal.   The system then

20   uses these parameter values to determine whether or not

speech is present within the audio signals.